In the Claims

- 1.-46. (Cancelled)
- 47. (New) A method for detecting formation and development of a microorganism biofilm on a surface in a liquid medium comprising:
- a) introducing into said medium at least one particle that is charged electrically, magnetic or magnetizable or covered with at least one magnetic or magnetizable layer,
- b) keeping the medium in conditions that permit development of a biofilm by said
 microorganism on said surface, said at least one particle resting on said surface, and
- c) detecting formation of a biofilm on said surface by application of an electric, magnetic or electromagnetic field to set into motion said at least one particle, the formation of a biofilm being detected when the motions of said at least one particle on said surface are slowed down or prevented due to formation of the biofilm.
- 48. (New) The method according to claim 47, wherein step c) comprises subjecting said at least one particle to an electric, magnetic or electromagnetic field that may be applied by impulsion.
- 49. (New) The process according to claim 47, wherein step c) comprises subjecting said at least one particle to a progressive augmentation of an electric, magnetic or electromagnetic field.
- 50. (New) The method according to claim 47, wherein said electrical, magnetic or electromagnetic field is generated a means that generates a motion field.
- 51. (New) The method according to claim 47, wherein said medium flows in a constant stream through an open reactor.

- 52. (New) The method according to claim 47, wherein the medium flows at a discontinuous stream through an open reactor at given time intervals.
- 53. (New) The method according to claim 47, wherein in step c) the at least one particle is lighted with a light source and motion of the lighted particle is detected.
- (New) The method according to claim 47, wherein the at least one particle generates a signal.
- (New) The method according to claim 47, wherein the at least one particle is fluorescent, phosphorescent, radioactive or chemo-luminescent.
 - 56. (New) The method according to claim 47,

wherein several particles are introduced into the medium in step a), and

wherein formation of a biofilm on said surface is detected in step c) by applying an electric, magnetic or electromagnetic field to set into motion said particles, formation of a biofilm being detected when the particles cannot be brought together on said surface by the electric, magnetic or electromagnetic field.

- 57. (New) The method according to claim 47, wherein when particles can be grouped together and detection of the grouping is visual.
- 58. (New) The method according to claim 47, wherein said medium is homogeneous or non-homogeneous.

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